

## **Narrative**

### **Waller Substation Expansion**

Dominion Virginia Power is working to upgrade the 230kV transmission system in eastern Virginia. A major improvement to reliability is the planned breaker installation at Waller Substation. The 230kV Lanexa-Yorktown Line No. 209 is 33.28 miles long. The average transmission line length is 13.7 miles. By adding the breaker at Waller Substation, the line is split into a 14.48-mile section and an 18.8-mile section. This will limit customer impact in the event of an outage on the transmission line. The result is improved reliability in the area.

The total Waller Substation property is 2.78 acres. The existing fenced area is approximately 0.7 acre. The proposed expansion is approximately 0.47 acre. Total fenced area is approximately 1.17 acres.

This is an unmanned facility. Routine inspections and maintenance are conducted periodically. There is no generation at this site; it exists for the distribution of electricity to customers. There should not be any offensive conditions associated with this site since there is no power generation. A substation does involve high-voltage equipment. We routinely surround our substations with an 8-foot fence consisting of 7 feet of chain link fabric and 1 foot that is 3 strands of barbed wire turned outward at a 45° angle. The National Electric Safety Code requires 7 feet of fabric. Dominion standards add the additional foot of barbed wire as an added deterrent to access.

The existing substation does lack proper screening. The proposed project includes the installation of a landscape buffer to lessen any visual impact on our neighbors.

Dominion Virginia Power is sensitive to public concern over electromagnetic fields (EMF). This project will have no appreciable EMF effect.